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(54) **BEACH GLASS AND COOPERATING CADDY FOR STORING OR TRANSPORTING**

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B65D 23/00 (2006.01)

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CPC **B65D 23/001** (2013.01); **A47G 19/2261** (2013.01)

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USPC 119/786; 206/426; 215/376, 395; 248/530, 532, 533; 220/475, 628, 636, 220/635, 729, 484, 630
See application file for complete search history.

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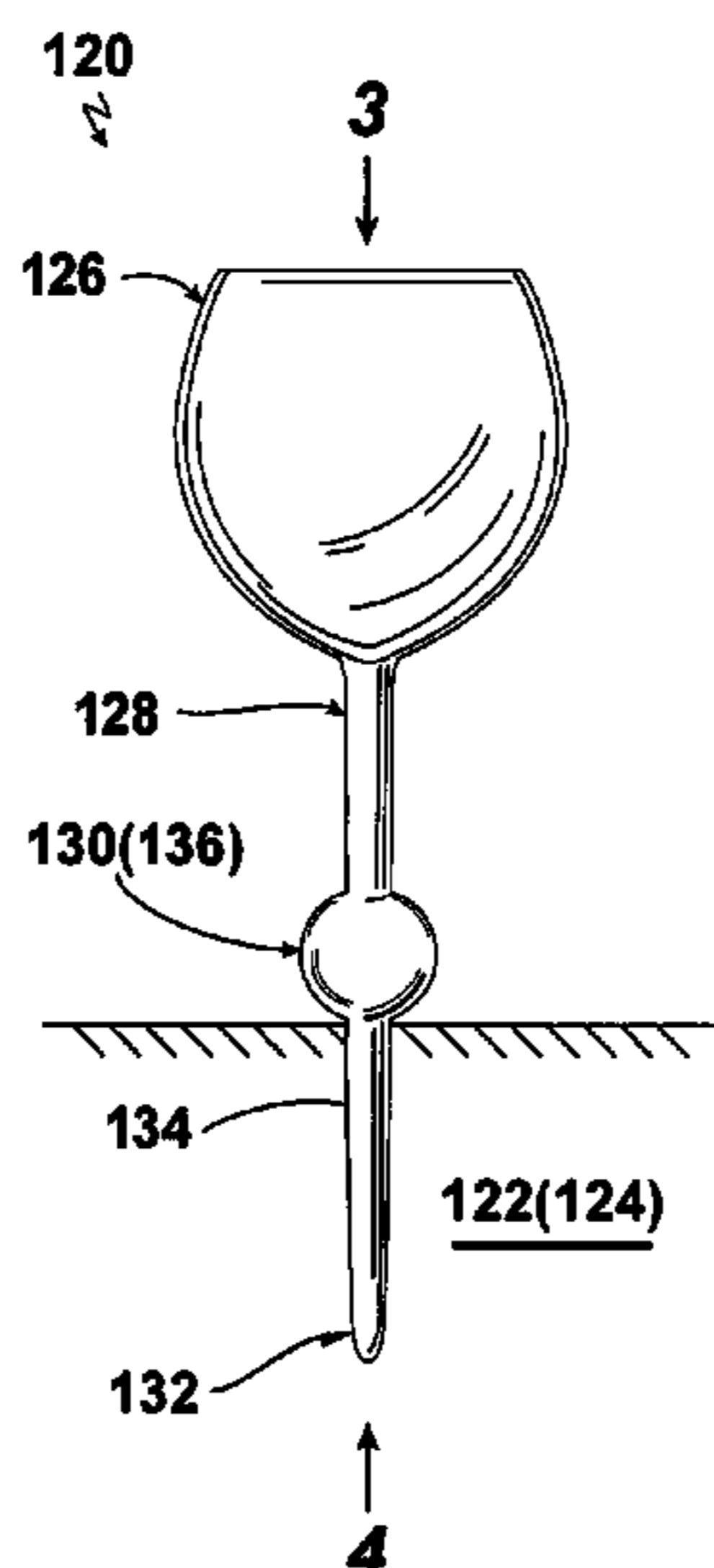
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(57) **ABSTRACT**

A glass that is self-supporting in a substance consisting of sand, earth, snow, water or vegetation. The glass includes a bowl, a stem, and apparatus that maintains the glass upright in the substance consisting of sand, earth, snow, water or vegetation. The stem depends from the bowl to a point so as to form a spike. The spike of the stem inserts into the substance consisting of sand, earth, snow, water or vegetation.

23 Claims, 9 Drawing Sheets



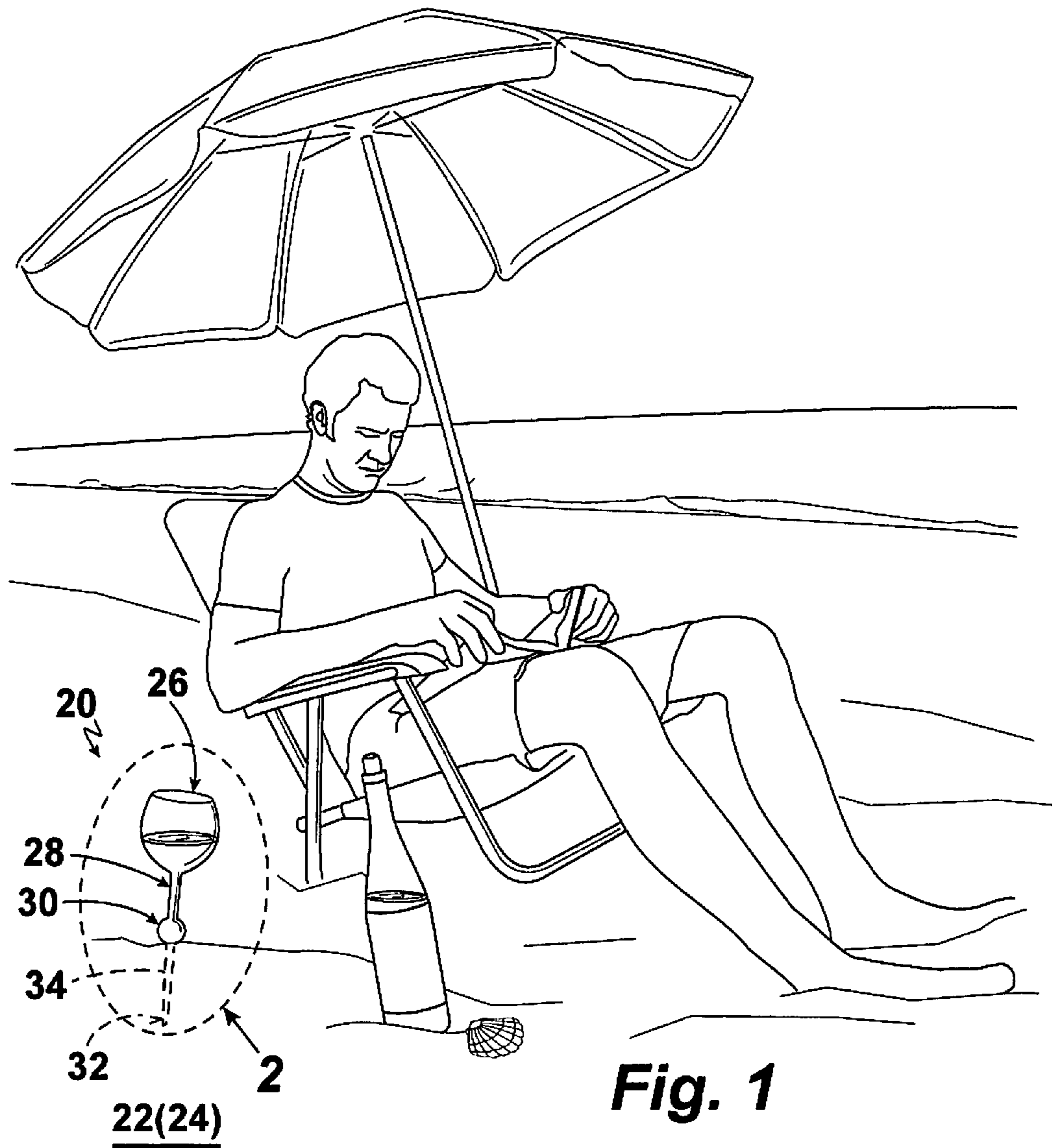
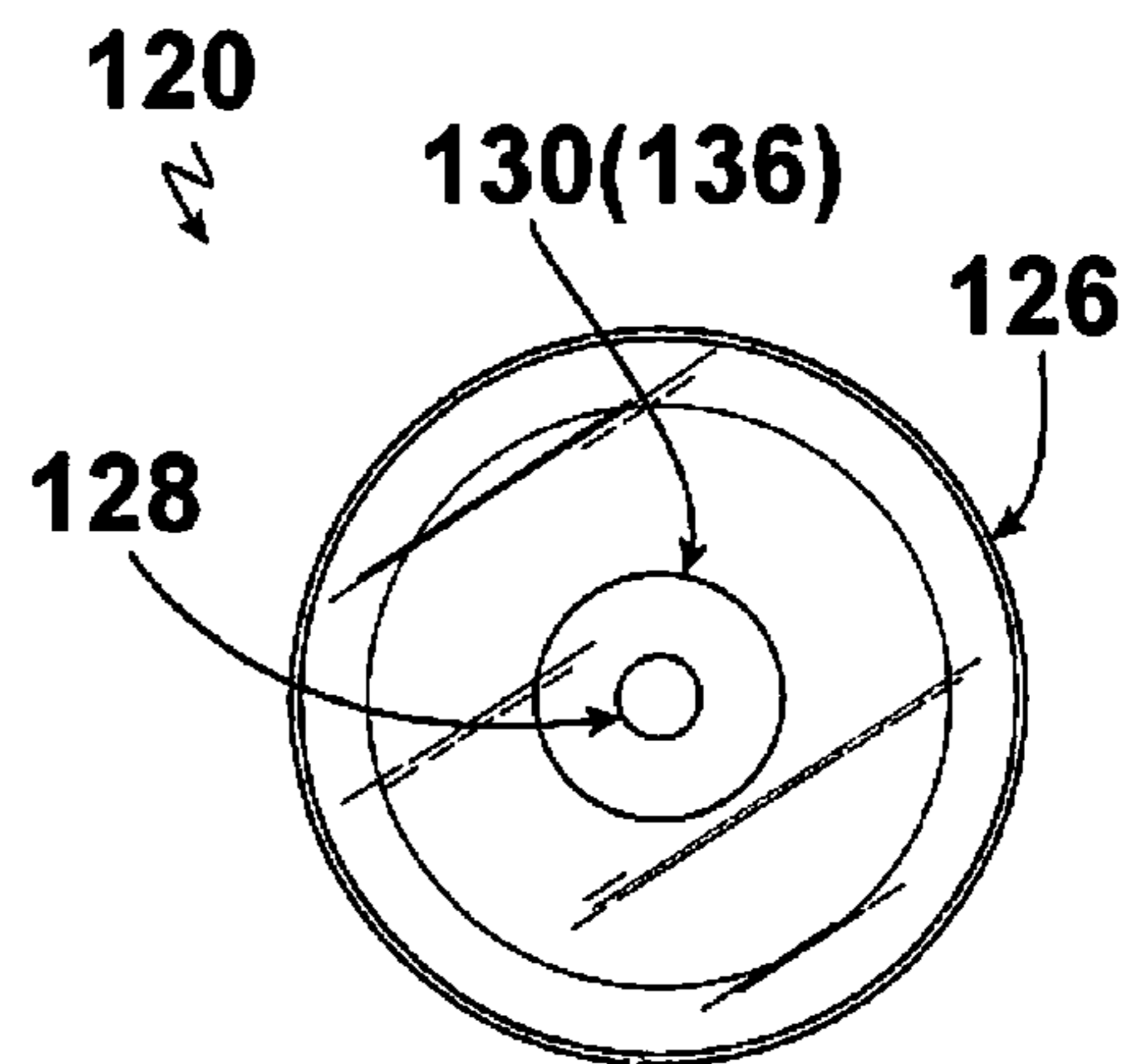
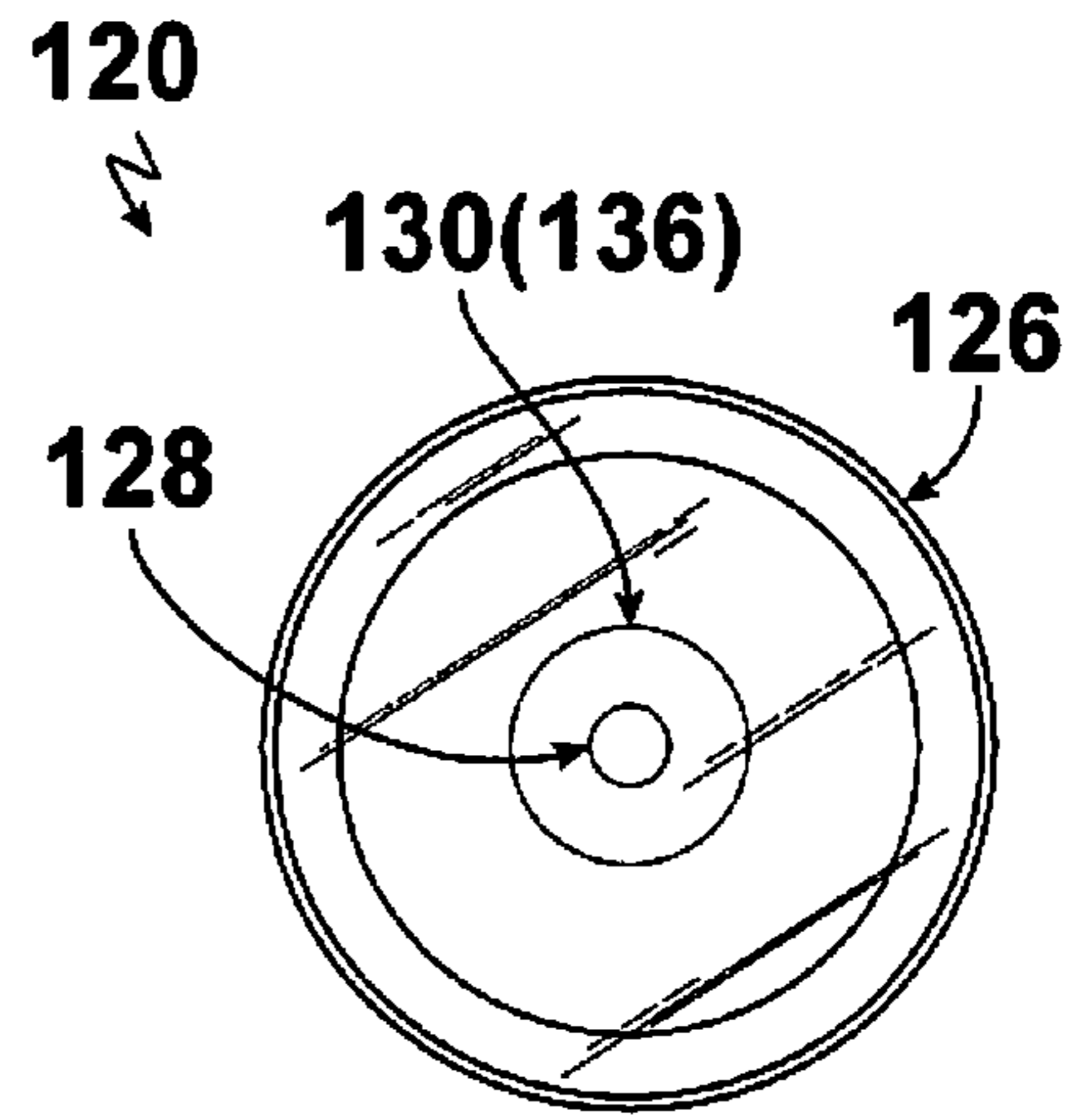
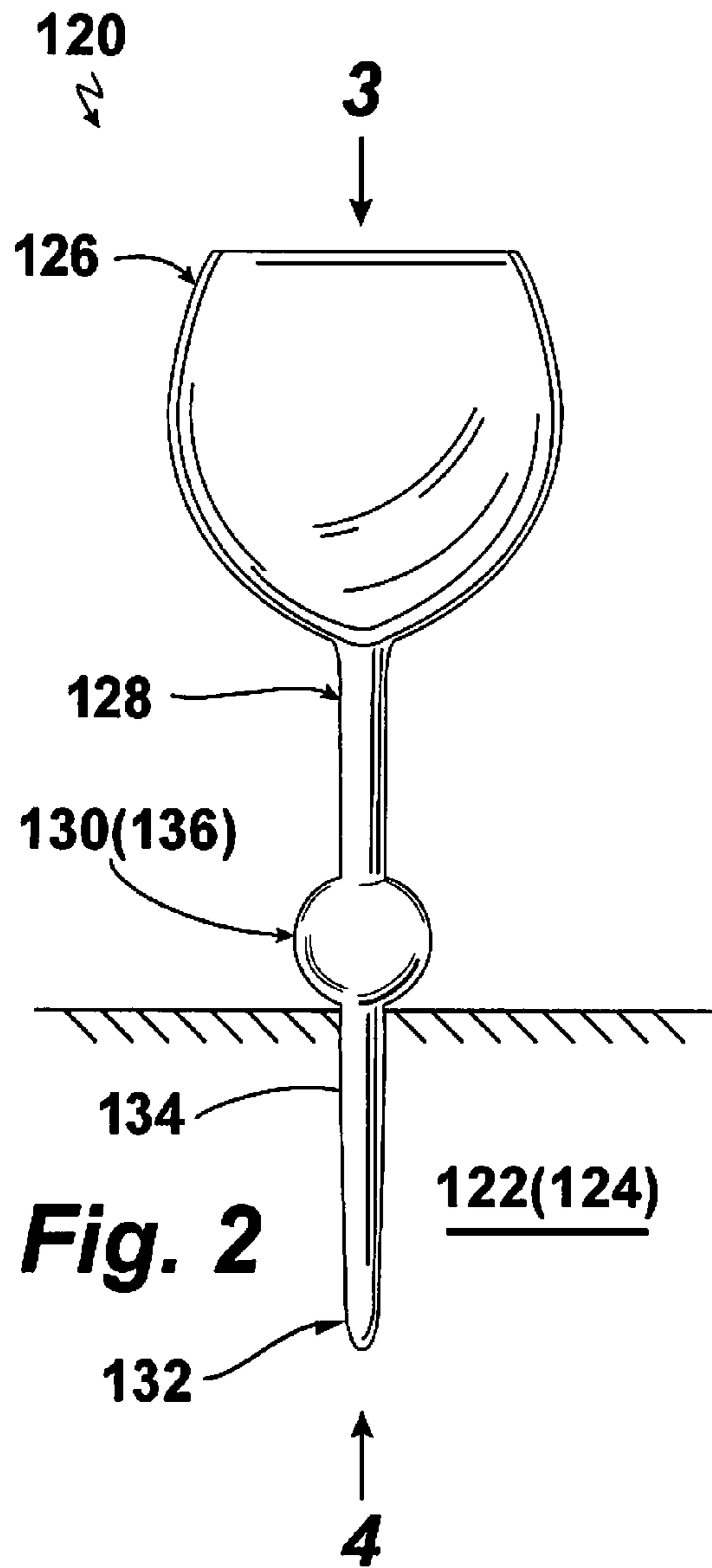


Fig. 1



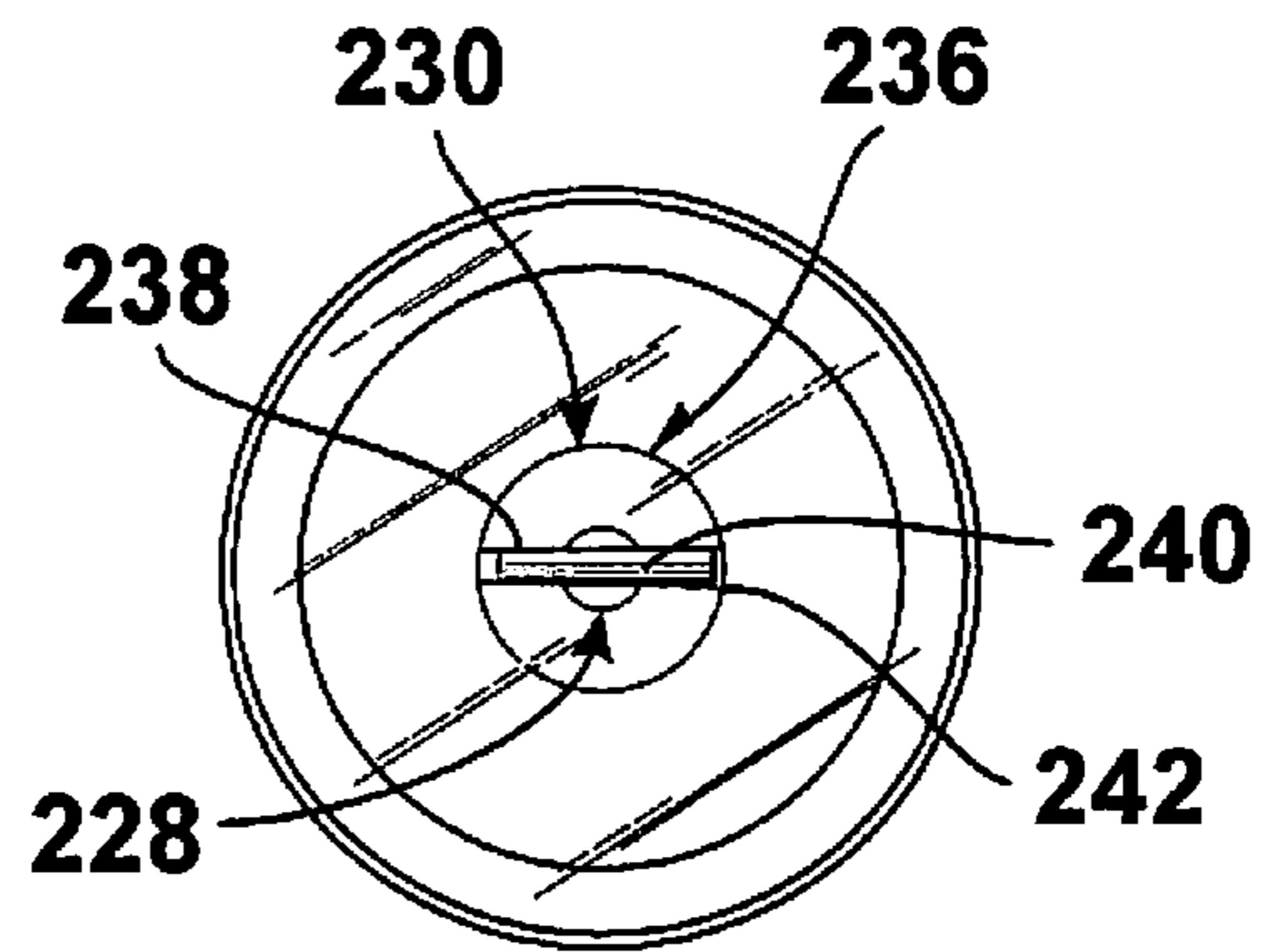
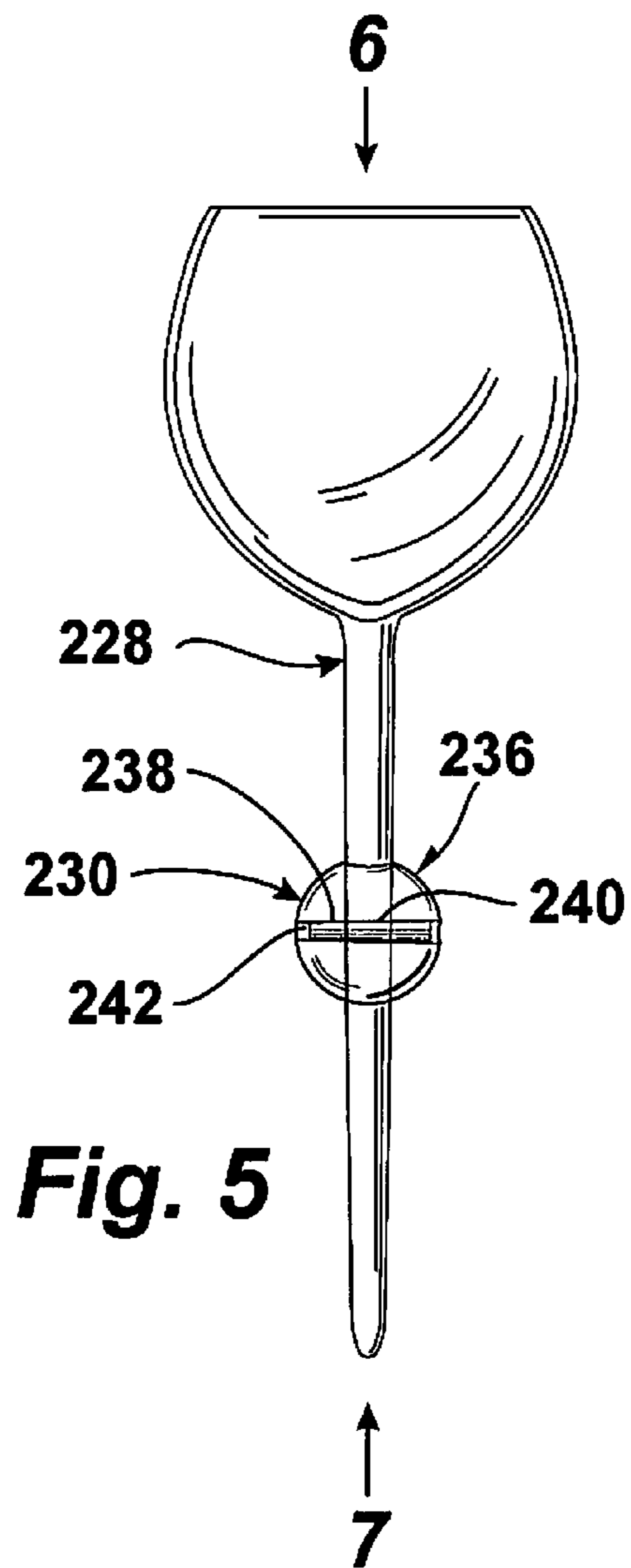


Fig. 6

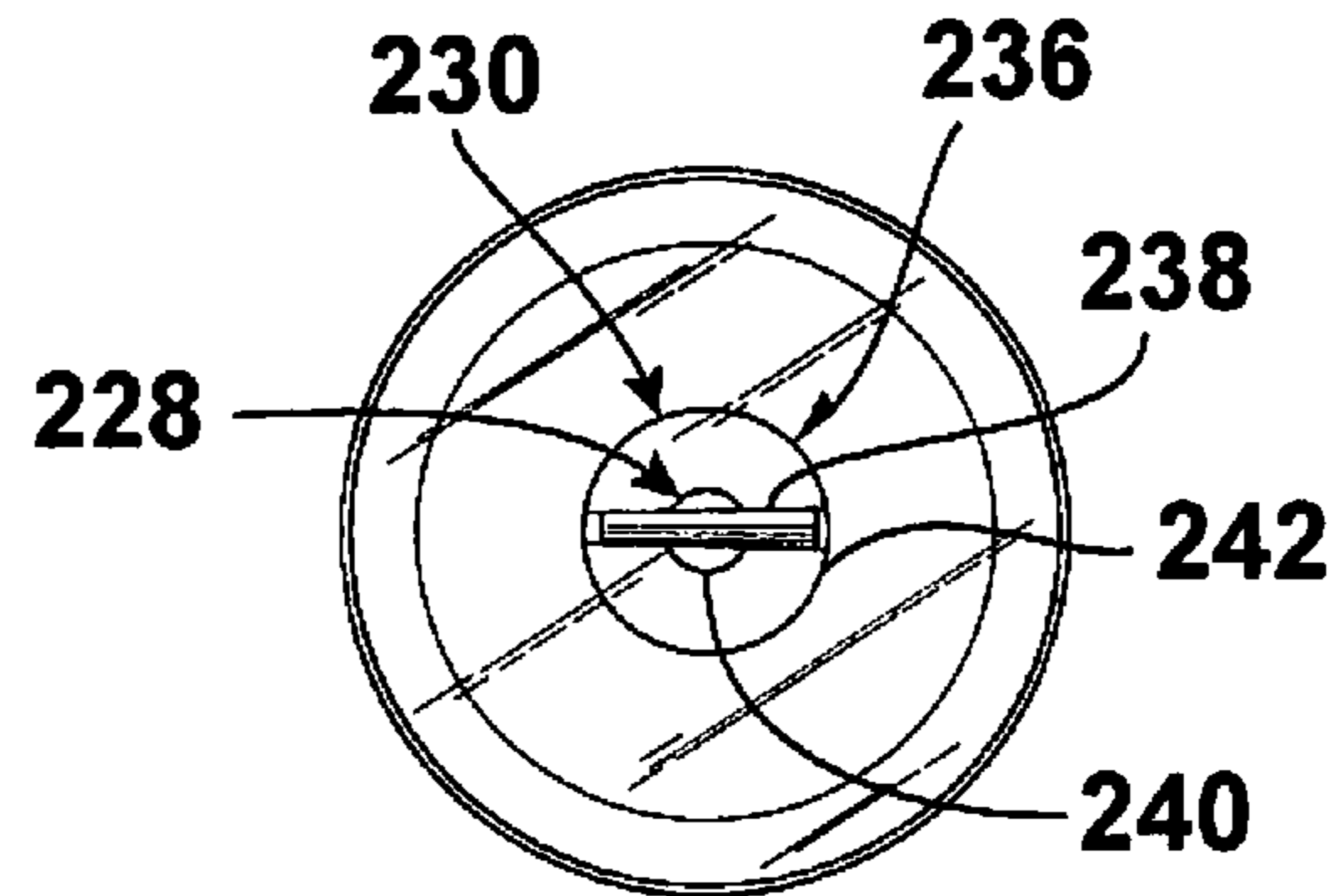


Fig. 7

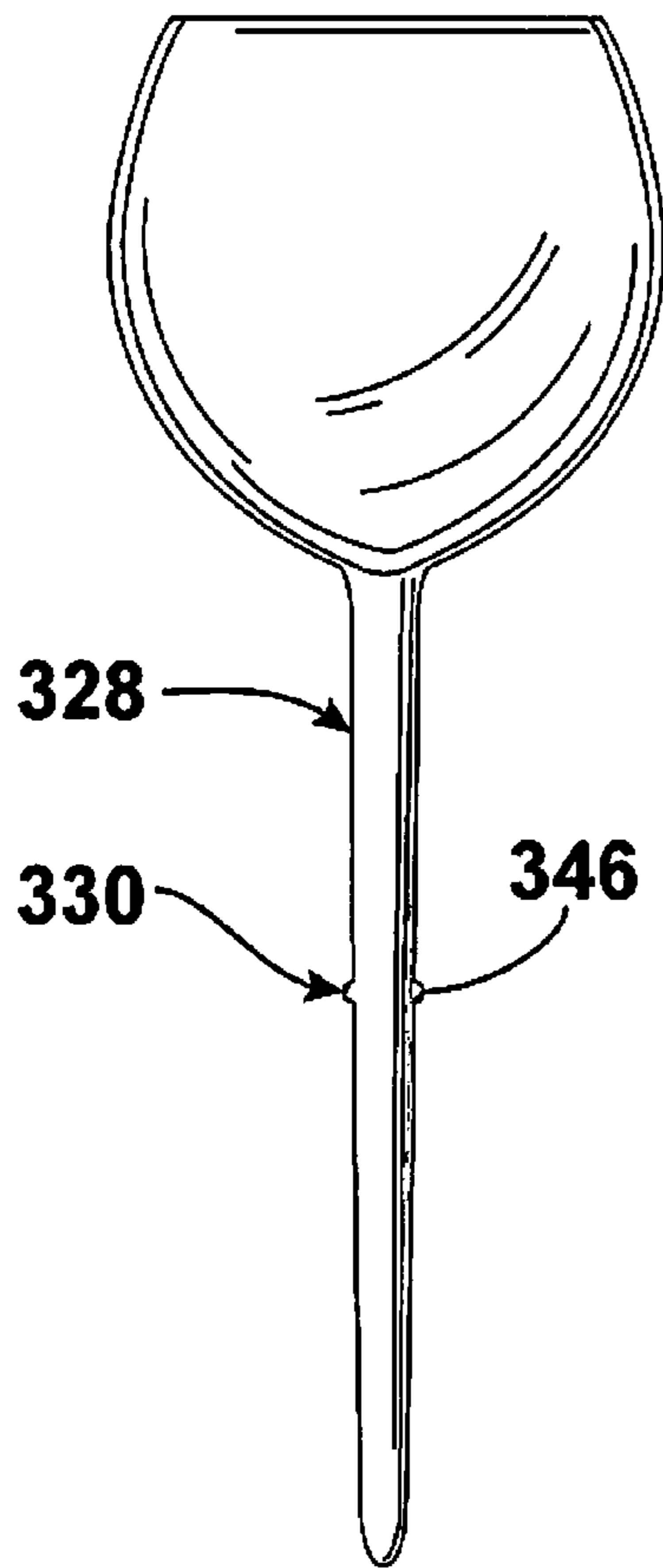


Fig. 8

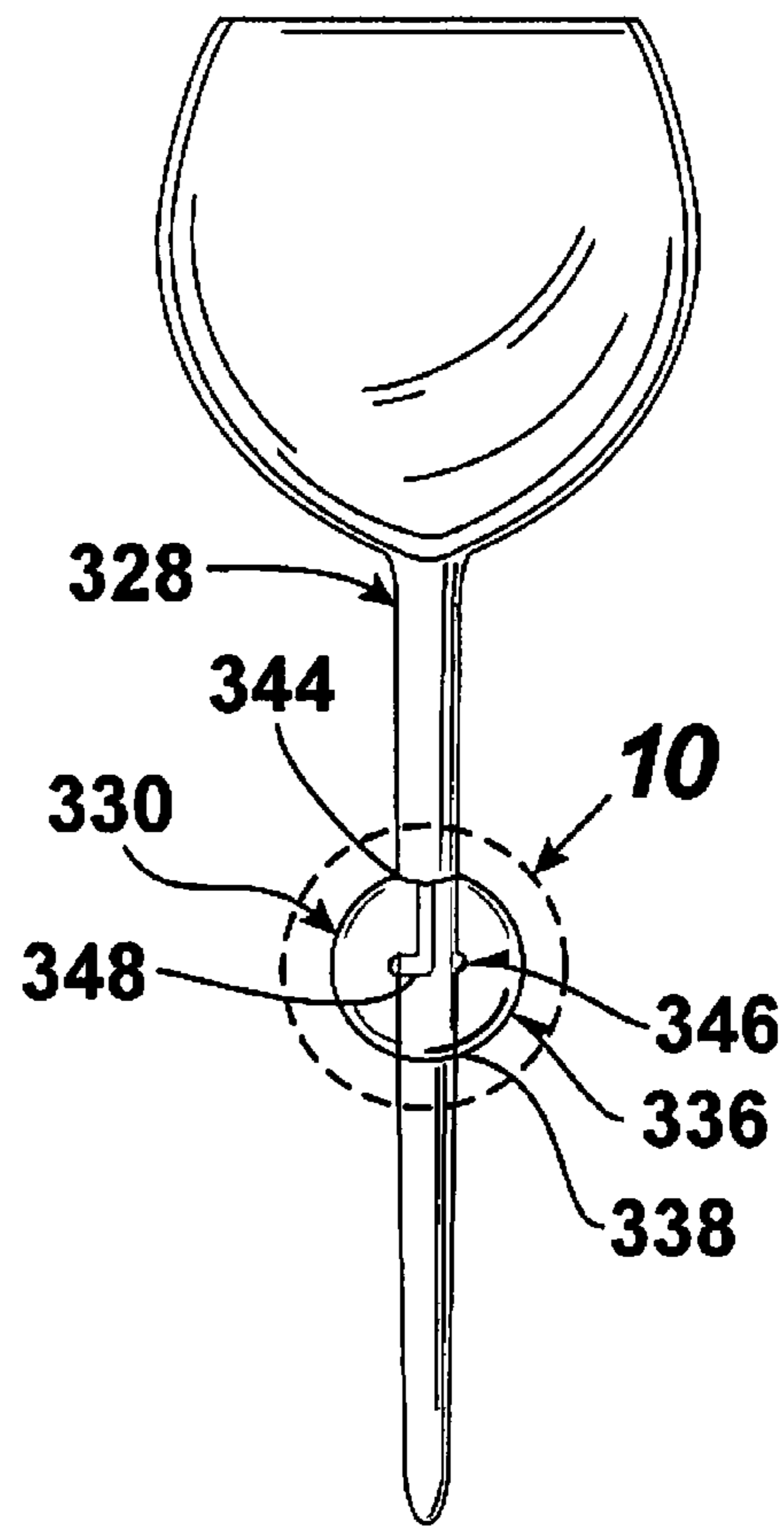


Fig. 9

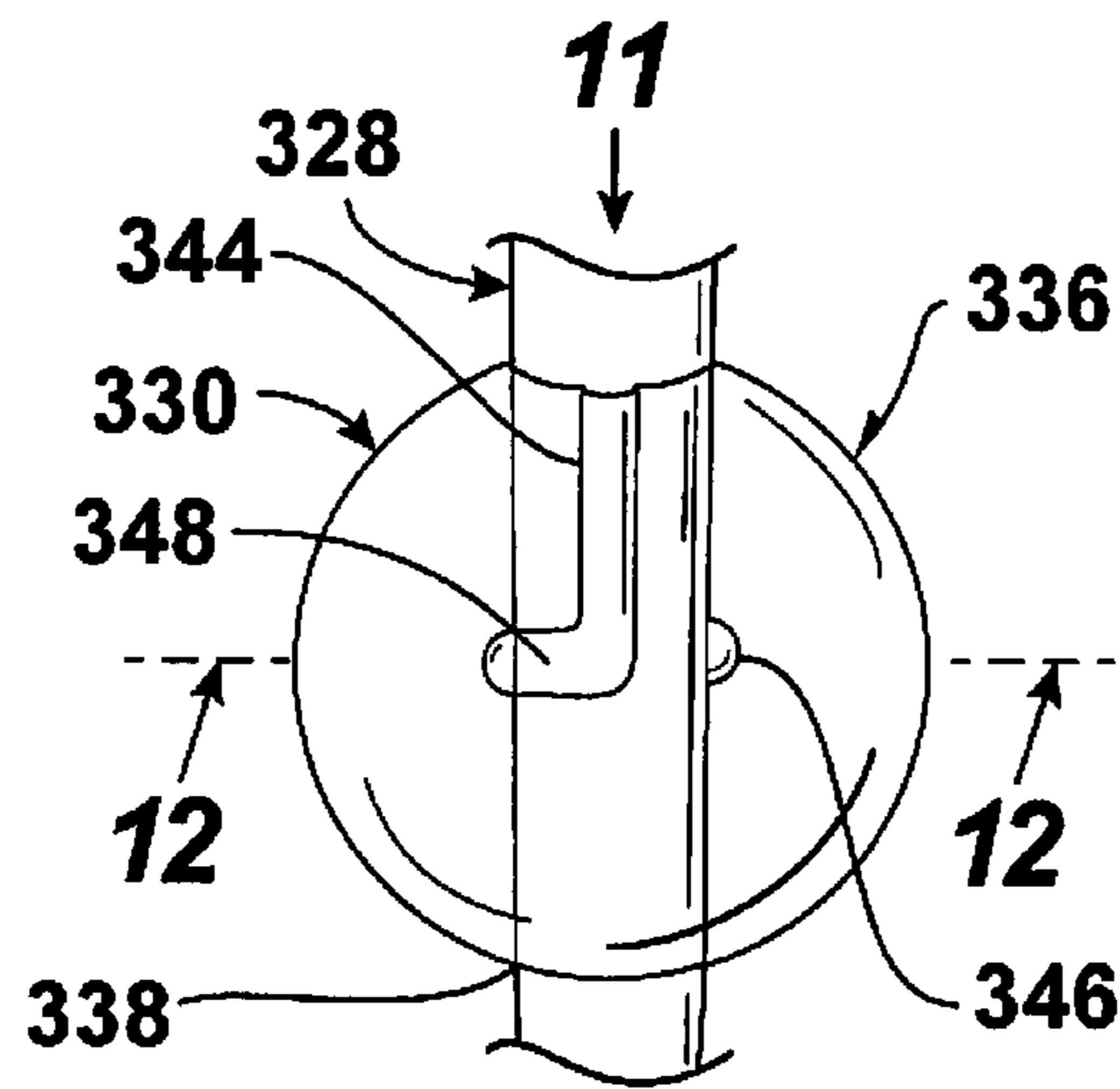


Fig. 10

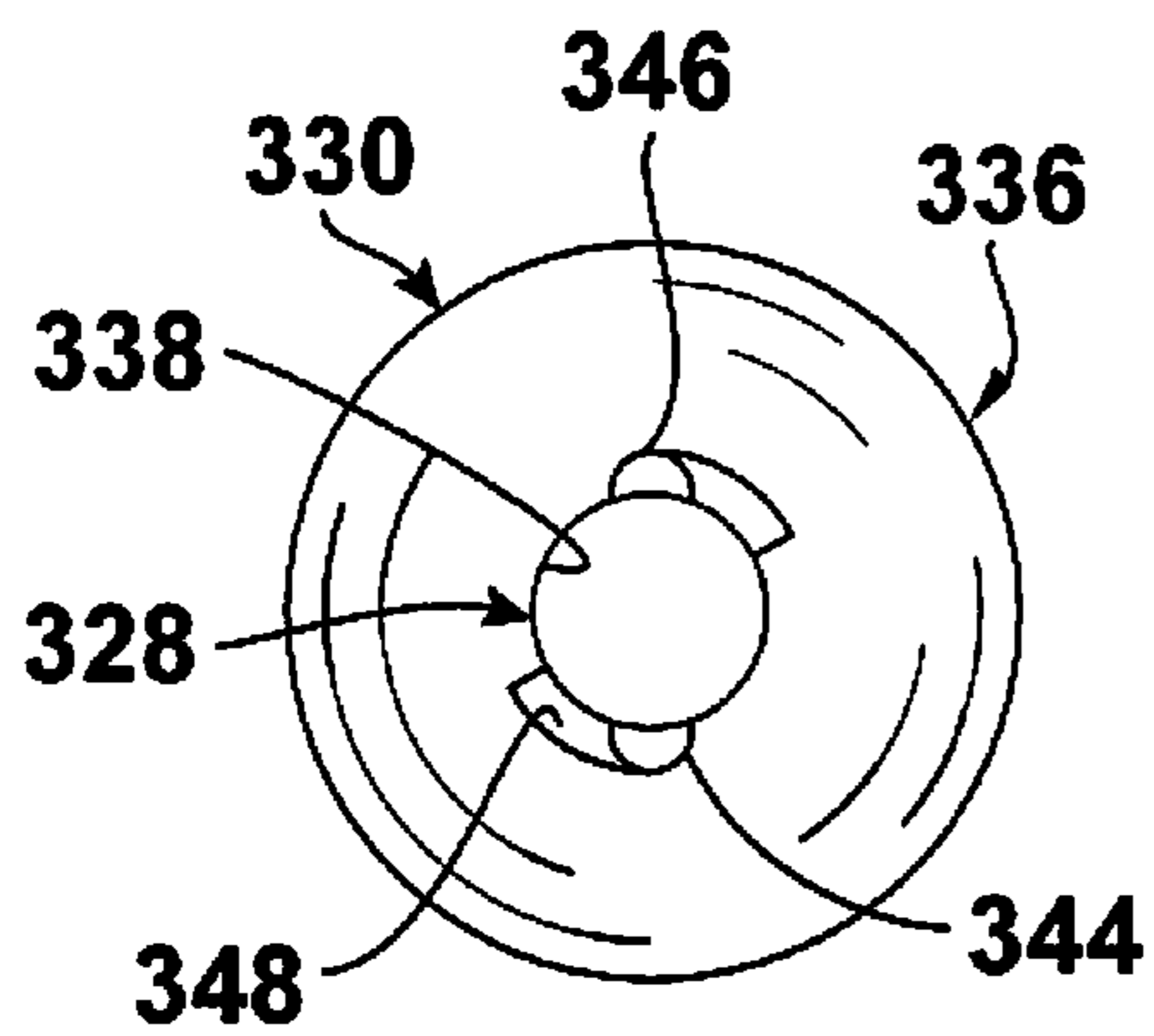


Fig. 11

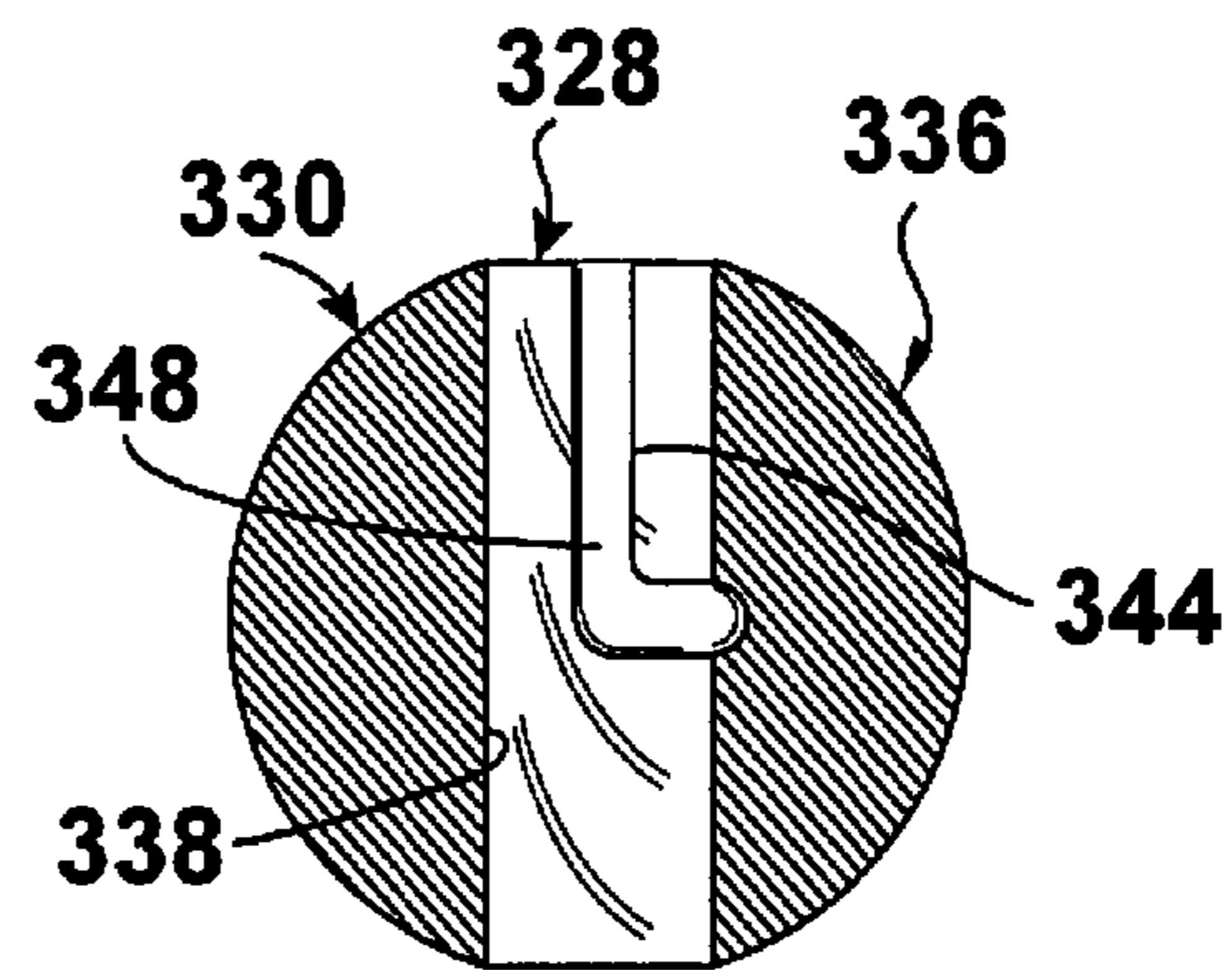


Fig. 12

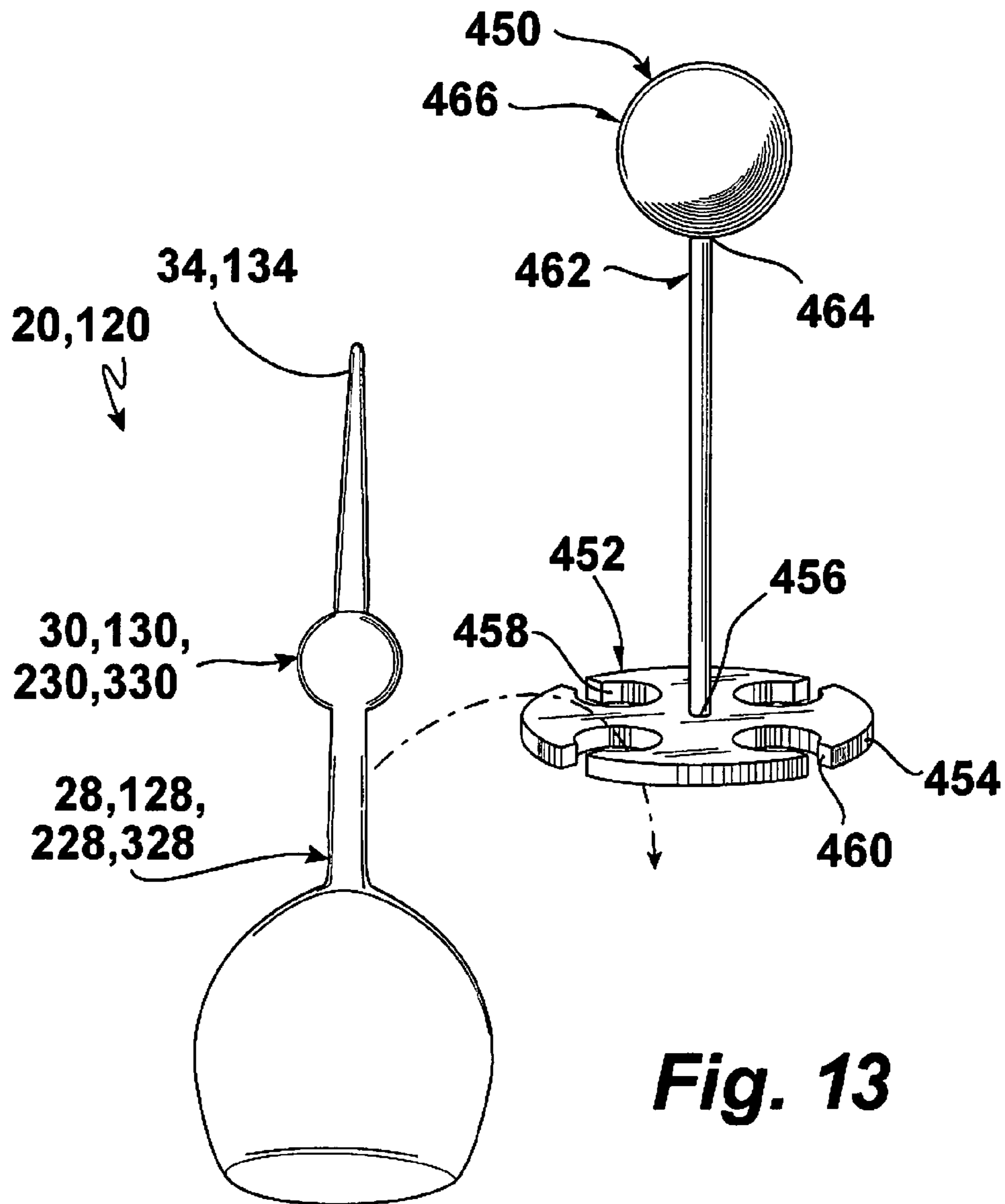


Fig. 13

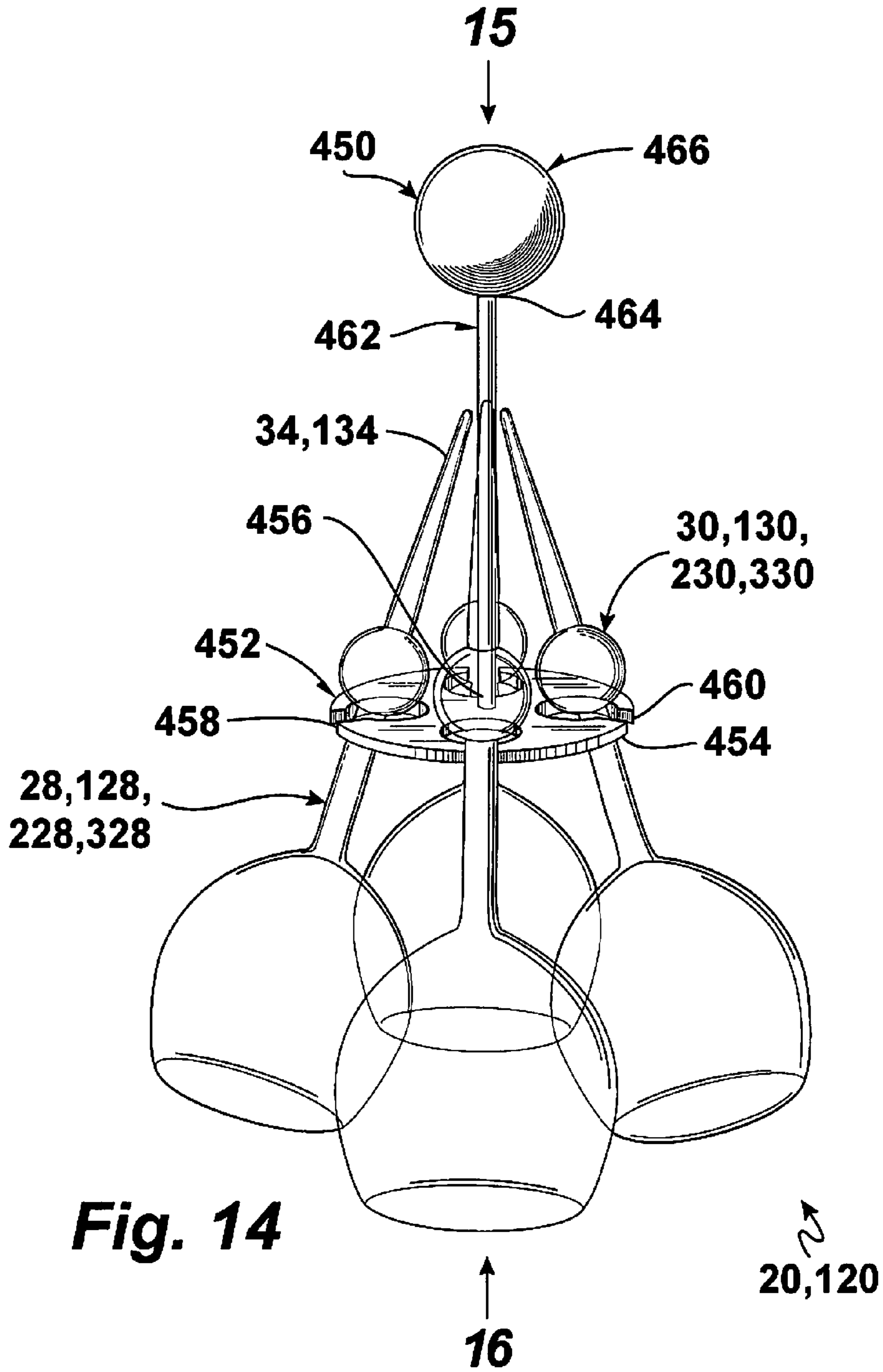


Fig. 14

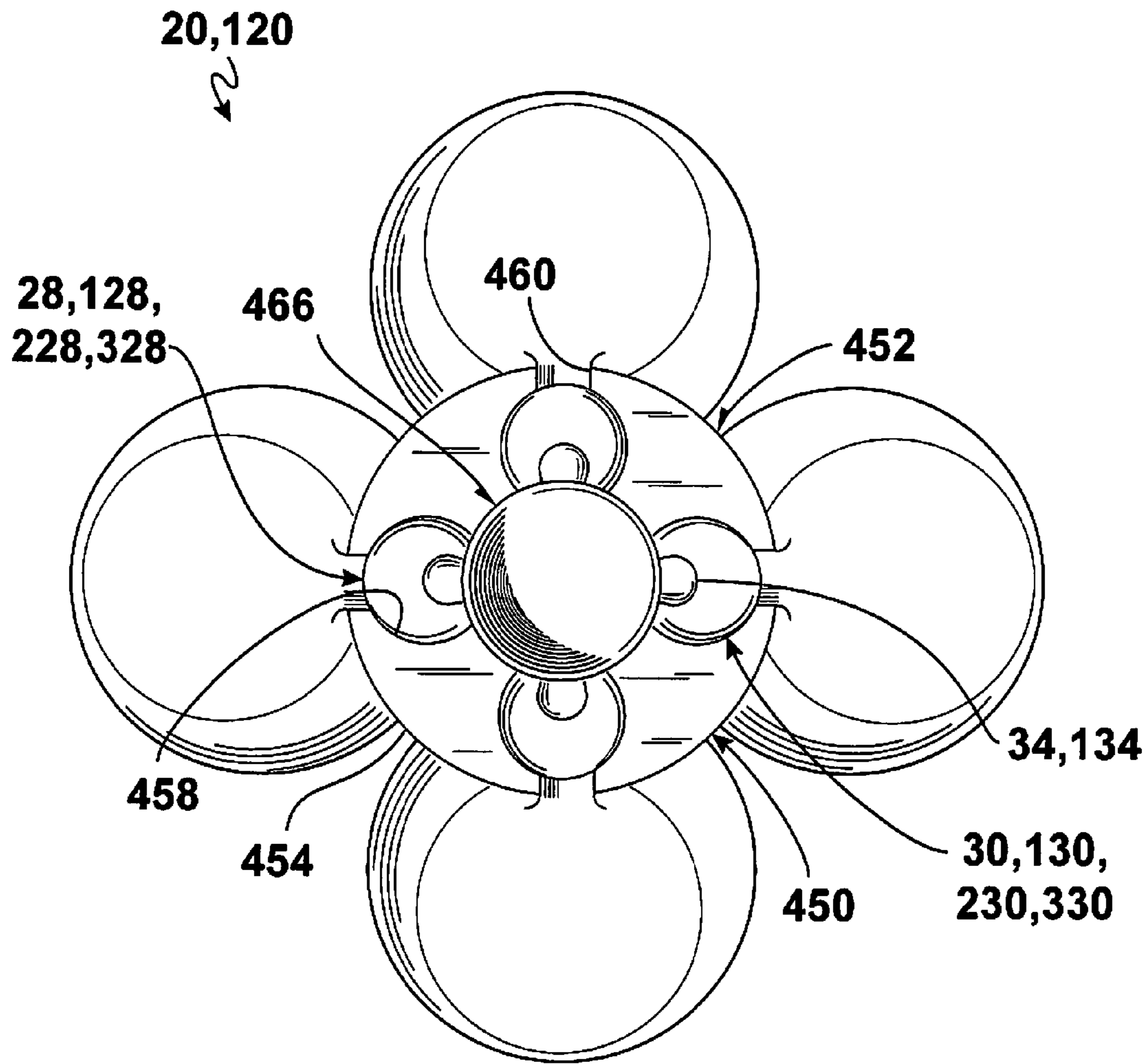


Fig. 15

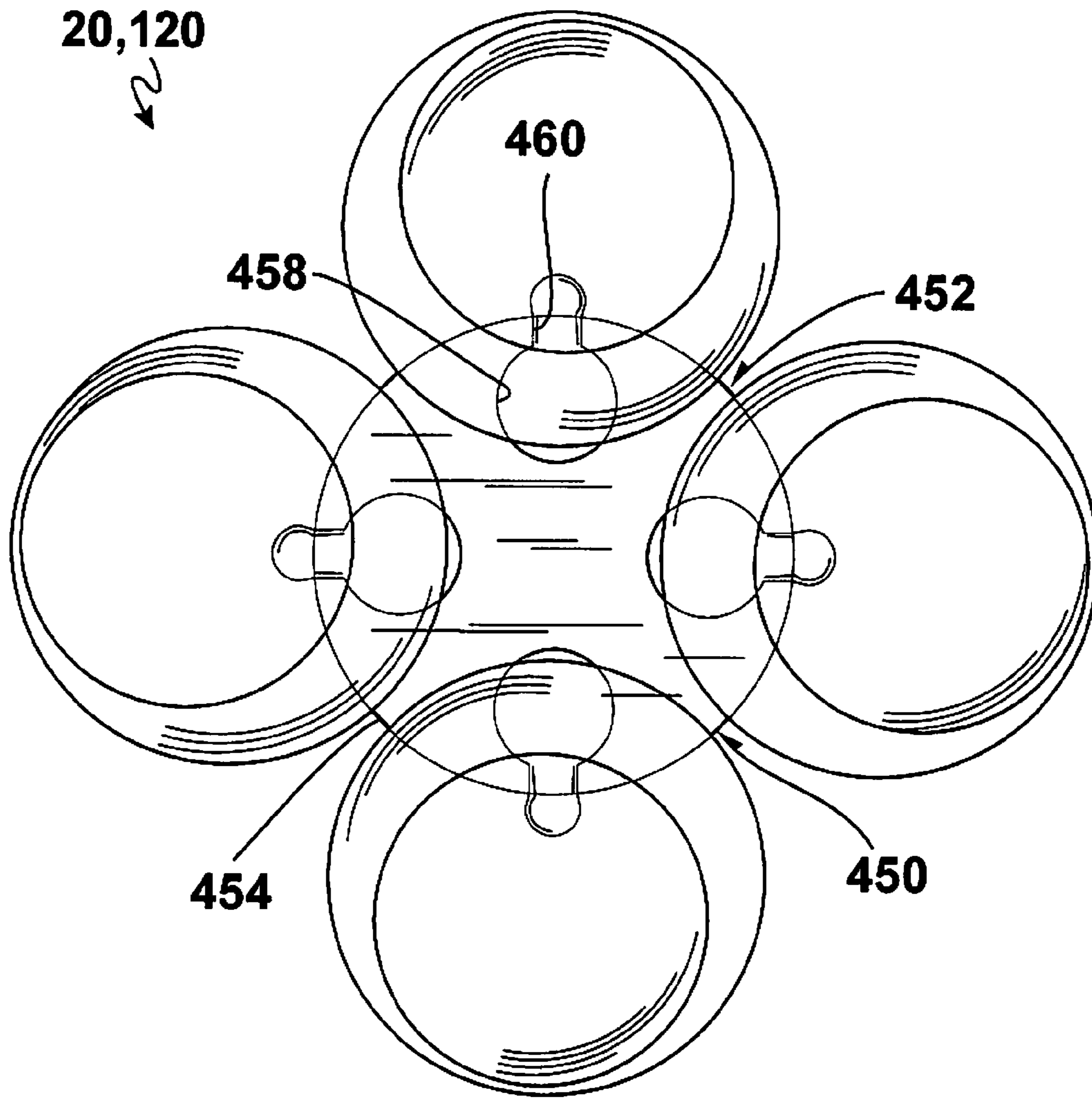


Fig. 16

BEACH GLASS AND COOPERATING CADDY FOR STORING OR TRANSPORTING

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a beach glass, and more particularly, a beach glass and cooperating caddy for storing or transporting.

2. Description of the Prior Art

Numerous innovations for glass holders have been provided in the prior art that will be described. Even though these innovations may be suitable for the specific individual purposes to which they address, however, they differ from the present invention.

A FIRST EXAMPLE, U.S. Pat. Office Document No. 3,627,394, Issued on Dec. 14, 1971, to Benn, et al. teaches a holder for supporting a cup or drinking glass at a beach, so to eliminate the necessity of placing it upon the sand. The holder includes a tapered lower end for insertion into the sand so that it is maintained upright, and an upper end having a receptacle into which a cup is removably placed. The holder is hollow and in screwed-together pieces, so as to provide a compartment for the storage of cups.

A SECOND EXAMPLE, U.S. Pat. Office Document No. 4,659,049, Issued on Apr. 21, 1987, to Watson teaches a device for supporting drinking glasses or other small objects out of contact with beach sand or the earth at other outdoor locations, which has a ground engaging spike with a pointed lower end and a relatively broad upper end on which a plate member is disposed in a transverse and substantially centered relationship with the spike. A retainer structure holds the plate on the spike during use while enabling separation of the plate and spike when not in use. In a preferred form, the spike is itself formed of separable flat elements. The device is disassemble and the components are rearrangeable.

A THIRD EXAMPLE, U.S. Pat. Office Document No. 4,934,661, Published/Issued on Jun. 19, 1990, to Denman, et al. teaches an array of inertial barriers positioned on a support surface alongside a vehicle roadway, which includes a number of separate containers, each having an outer wall and a lower portion. An inner core is positioned within each container to define an annular space between the core and the respective outer wall. The annular space defines an average inner diameter that is at least about 20% of the average outer diameter of the annular space. A dispersible material, such as sand, is disposed in the annular spaces so that no more than 10% of the mass of sand in any container of the array extends in an uninterrupted disc across the respective container.

A FOURTH EXAMPLE, U.S. Pat. Office Document No. Des. 449,206, Issued on Oct. 16, 2001, to DuBow teaches the ornamental design for a wine glass holder.

A FIFTH EXAMPLE, U.S. Pat. Office Document No. Des. 474,648, Issued on May 20, 2003, to Dimeo teaches a the ornamental design for a champagne glass.

A SIXTH EXAMPLE, U.S. Pat. Office Document No. Des. 543,783, Issued on Jun. 5, 2007, to Goldberg teaches the ornamental design for a drinking glass.

A SEVENTH EXAMPLE, U.S. Pat. Office Document No. 2013/0075351, Published on Mar. 28, 2013, to Lueker teaches an apparatus including one or more beverage container receptacles for holding a beverage container in the upright position in multiple convenient and possibly unstable locations. Slender legs separate the beverage container receptacles from direct contact with the mounting or bearing surfaces and serve to damp spilling forces transmitted from these surfaces when the apparatus is placed in various horizontal or

vertical orientations, such as vertically between couch cushions or horizontally between a bed mattress and box spring or on a picnic blanket. Multiple stemmed and non-stemmed beverage container types, such as wine glasses, coffee cups, and large soda cups, are simultaneously held. Additional storage space for personal effects, such as digital electronic devices, remote controls, or reading glasses, is included. One embodiment includes speakers, amplifying electronics, and batteries for playing digital music from a users digital electronic device.

It is apparent now that numerous innovations for glass holders have been provided in the prior art that adequate for various purposes. Furthermore, even though these innovations may be suitable for the specific individual purposes to which they address, accordingly, they would not be suitable for the purposes of the present invention as heretofore described.

SUMMARY OF THE INVENTION

AN OBJECT of the present invention is to provide a beach glass and cooperating caddy for storing or transporting that avoids the disadvantages of the prior art.

ANOTHER OBJECT of the present invention is to provide a beach glass and cooperating caddy for storing or transporting that is simple and inexpensive to manufacture.

STILL ANOTHER OBJECT of the present invention is to provide a beach glass and cooperating caddy for storing or transporting that is simple to use.

BRIEFLY STATED, STILL YET ANOTHER OBJECT of the present invention is to provide a glass that is self-supporting in a substance consisting of sand, earth, snow, water or vegetation. The glass includes a bowl, a stem, and a ball apparatus that maintains the glass upright in the substance consisting of sand, earth, snow, water or vegetation. The stem depends from the bowl to a point so as to form a spike. The spike of the stem inserts into the substance consisting of sand, earth, snow, water or vegetation.

The novel features which are considered characteristic of the present invention are set forth in the appended claims. The invention itself, however, both as to its construction and its method of operation, together with additional objects and advantages thereof, will be best understood from the following description of the specific embodiments when read and understood in connection with the accompanying drawing.

BRIEF DESCRIPTION OF THE DRAWING

The figures of the drawings are briefly described as follows:

FIG. 1 is a perspective view showing a drinking glass portion of the present invention in use;

FIG. 2 is a side elevational view of a first embodiment of a drinking glass portion of the invention per se, as seen in the area enclosed in the dotted curve indicated by arrow 2 in FIG. 1;

FIG. 3 is a top plan view thereof, taken in the direction of arrow 3 in FIG. 2;

FIG. 4 is a bottom plan view thereof, taken in the direction of arrow 4 in FIG. 2;

FIG. 5 is a side elevational view of a second embodiment of a drinking glass portion of the invention per se, as seen in the area enclosed in the dotted curve indicated by arrow 2 in FIG. 1;

FIG. 6 is a top plan view thereof, taken in the direction of arrow 6 in FIG. 5;

FIG. 7 is a bottom plan view thereof, taken in the direction of arrow 7 in FIG. 5;

FIG. 8 is a side elevational view of a third embodiment of a drinking glass portion of the invention per se, which has bayonet projections, on a stem portion, for cooperating with corresponding L-shaped grooves in a conical opening in a removable spherical component;

FIG. 9 is a side elevational view of a third embodiment of the drinking glass portion of the invention per se, as seen in the area enclosed in the dotted curve indicated by arrow 2 in FIG. 1, after the spherical component has been installed on the stem portion and secured thereto utilizing the bayonet mechanism;

FIG. 10 is an enlarged diagrammatic perspective view of the removable spherical component seen in the area enclosed in the dotted circle indicated by arrow 10 in FIG. 9;

FIG. 11 is a top plan view taken in the direction of arrow 11 in FIG. 10 of the spherical component per se;

FIG. 12 is a cross sectional view taken on line 12-12 in FIG. 10 of the spherical component per se;

FIG. 13 is a diagrammatic perspective view of the present invention illustrating a cooperating caddy with a drinking glass about to be placed therein;

FIG. 14 is a diagrammatic perspective view illustrating a set of four glasses loaded in the cooperating caddy portion of the invention;

FIG. 15 is a top plan view thereof, taken in to direction of arrow 15 in FIG. 14; and

FIG. 16 is a bottom plan view thereof, taken in to direction of arrow 16 in FIG. 14.

A MARSHALING OF REFERENCE NUMERALS UTILIZED IN THE DRAWING

- 20 glass of embodiments of present invention for being self-supporting in substance 22 consisting of sand, earth, snow, water or vegetation 24
- 22 substance consisting of sand, earth, snow, water or vegetation 24
- 24 sand, earth, snow, water or vegetation
- 26 bowl
- 28 stem
- 30 apparatus for maintaining glass 20 upright in substance 22 consisting of sand, earth, snow, water or vegetation 24
- 32 point of stem 28 for inserting into substance 22 consisting of sand, earth, snow, water or vegetation 24
- 34 spike of stem 28
- 122 substance consisting of sand, earth, snow, water or vegetation 24
- 124 sand, earth, snow, water or vegetation
- 126 bowl
- 128 stem
- 130 apparatus for maintaining glass 120 upright in substance 122 consisting of sand, earth, snow, water or vegetation 124
- 132 point of stem 128
- 134 spike of stem 128
- 136 sphere of apparatus 130 for maintaining glass 120 upright in substance 122 consisting of sand, earth, snow, water or vegetation 124
- 228 stem
- 230 apparatus
- 236 sphere of apparatus 230
- 238 through bore of sphere 236 of apparatus 230
- 240 through bore of stem 228 of apparatus 230
- 242 tapered pin of apparatus 230
- 328 stem

- 330 apparatus
- 336 sphere of apparatus 330
- 338 through bore of sphere 336 of apparatus 330
- 344 bayonet mount of apparatus 330
- 346 pair of radial pins of stem 328 of bayonet mount 44 of apparatus 230
- 348 pair of L-shaped slots of sphere 336 of bayonet mount 44 of apparatus 330
- 450 caddy
- 452 disc of caddy 450
- 454 periphery of disc 452 of caddy 450
- 456 center of disc 452 of caddy 450
- 458 plurality of through bores of disc 452 of caddy 450
- 460 plurality of mouths of disc 452 of caddy 450
- 462 shaft of caddy 450
- 464 terminal end of shaft 462 of caddy 450
- 466 ball of caddy 450

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the figures, in which like numerals indicate like parts, and particularly to FIG. 1, the glass of the embodiments of the present invention is shown generally at 20 for being self-supporting in a substance 22 consisting of sand, earth, snow, water or vegetation 24.

The overall configuration of the glass 20 can best be seen in FIG. 1, and as such, will be discussed with reference thereto.

The glass 20 comprises a bowl 26, a stem 28, and apparatus 30 for maintaining the glass 20 upright in the substance 22 consisting of sand, earth, snow, water or vegetation 24.

The stem 28 depends from the bowl 26 to a point 32 so as to form a spike 34. The spike 34 of the stem 28 is for inserting into the substance 22 consisting of sand, earth, snow, water or vegetation 24.

The apparatus 30 is disposed on the stem 28, approximately midway between the bowl 26 and the point 32 of the stem 28.

The spike 34 of the stem 28 extends from the apparatus 30 to the point 32 of the stem 28.

The specific configuration of a first embodiment of the apparatus 130 can best be seen in FIGS. 2, 3, and 4, and as such, will be discussed with reference thereto.

The apparatus 130 includes a sphere 136.

The sphere 136 of the apparatus 130 is formed as one-piece with the stem 128, is coaxial with the stem 128, is smaller than the bowl 126, is disposed approximately midway between the bowl 126 and the point 132 of the stem 128, and when the spike 134 of the stem 128 is inserted into the substance 122 consisting of sand, earth, snow, water or vegetation 124 up to the sphere 136 of the apparatus 130, the glass 120 is maintained upright in the substance 122 consisting of sand, earth, snow, water or vegetation 124.

The specific configuration of a second embodiment of the apparatus 230 can best be seen in FIGS. 5, 6, and 7, and as such, will be discussed with reference thereto.

The apparatus 230 is similar to the apparatus 130, except that:

The sphere 236 of the apparatus 230 is replaceably attached to the stem 228;

The apparatus 230 has the sphere 236 of the apparatus 230 having a through bore 238 that is tapered and extends laterally therethrough;

The apparatus 230 has the stem 228 having a through bore 240 that is tapered, extends laterally therethrough, and is aligned with the through bore 238 of the sphere 236 of the apparatus 230;

The apparatus **230** has a tapered pin **242**; and
The tapered pin **242** of the apparatus **230** extends replaceably through the through bore **240** of the stem **228** of the apparatus **230** and through the through bore **238** of the sphere **236** of the apparatus **230**.

The specific configuration of a third embodiment of the apparatus **330** can best be seen in FIGS. **8, 9, 10, 11,** and **12,** and as such, will be discussed with reference thereto.

The apparatus **330** is similar to the apparatus **230,** except that:

The sphere **336** of the apparatus **330** is replaceably attached to the stem **328** by a bayonet mount **344**;

The apparatus **330** has the sphere **336** of the apparatus **330** having a through bore **338** that extends axially there-through;

The apparatus **330** has the stem **328** having a pair of radial pins **346**; and

The apparatus **330** has the sphere **336** of the apparatus **330** having a pair of L-shaped slots **348** that communicate with the through bore **338** of the sphere **336** of the apparatus **330,** and cooperate with the pair of radial pins **346** of the stem **328** of the apparatus **330,** respectively.

As shown in FIGS. **13, 14, 15,** and **16,** the glass **20, 120** further comprises a caddy **450**.

The caddy **450** transports and stores at least one glass **20, 120,** up-side-down, via the apparatus **130, 230,** and **330**.

The caddy **450** comprises a disc **452**.

The disc **452** of the caddy **450** is horizontally disposed, and has a periphery **454** and a center **456**.

The disc **452** of the caddy **450** has a plurality of through bores **458** that are vertically disposed, and communicate with the periphery **454** of the disc **452** of the caddy **450** to form a plurality of mouths **460,** respectively, so as to allow the stem **28, 128, 228,** and **328** of the glass **20, 120** that is up-side-down to pass through a mouth **460** of the disc **452** of the caddy **450** into an associated through bore **458** of the disc **452** of the caddy **450** and be maintained thereat by the apparatus **30, 130, 230,** and **330** resting on the disc **452** of the caddy **450**.

The caddy **450** further comprises a shaft **462**.

The shaft **462** of the caddy **450** extends vertically upwardly from the center **456** of the disc **452** of the caddy **450** to a terminal end **464**.

The caddy **450** further comprises a ball **466**.

The ball **466** of the caddy **450** is disposed on the terminal end **464** of the shaft **462** of the caddy **450** and provides a handle to transport the caddy **450**.

The shaft **462** of the caddy **450** spaces the ball **466** of the caddy **450** far enough away from the disc **452** of the caddy **450** to provide adequate clearance for the spike **34** of the glass **20, 120** that the caddy **450** is storing or transporting up-side-down.

It will be understood that each of the elements described above, or two or more together, may also find a useful application in other types of constructions differing from the types described above.

While the invention has been illustrated and described as embodiments of a beach glass and cooperating caddy for storing or transporting, accordingly it is not limited to the details shown, since it will be understood that various omissions, modifications, substitutions and changes in the forms and details of the device illustrated and its operation can be made by those skilled in the art without departing in any way from the spirit of the present invention.

Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can, by applying current knowledge, readily adapt it for various applications

without omitting features that, from the standpoint of prior art, fairly constitute characteristics of the generic or specific aspects of this invention.

The invention claimed is:

1. A glass for being self-supporting in a substance selected from the group consisting of sand, earth, snow and vegetation, comprising:

a) a bowl;

b) a stem; and

c) means for maintaining said glass upright in the substance selected from the group consisting of sand, earth, snow and vegetation;

wherein said stem depends from said bowl to a point so as to form a spike; and

wherein said spike of said stem is for inserting into the substance selected from the group consisting of sand, earth, snow and vegetation;

wherein said means includes a sphere;

wherein said sphere of said means is coaxial with said stem;

wherein said sphere of said means is smaller than said bowl;

wherein said sphere of said means is disposed approximately midway between said bowl and said point of said stem.

2. The glass of claim **1,** wherein said means is disposed on said stem.

3. The glass of claim **1,** wherein said means is approximately midway between said bowl and said point of said stem.

4. The glass of claim **1,** wherein said spike of said stem extends from said means to said point of said stem.

5. The glass of claim **1,** wherein said glass is maintained upright in the substance selected from the group consisting of sand, earth, snow and vegetation when said spike of said stem is inserted into the substance selected from the group consisting of sand, earth, snow and vegetation up to said sphere of said means.

6. The glass of claim **5,** wherein said sphere of said means is formed as one-piece with said stem.

7. The glass of claim **5,** wherein said sphere of said means is replaceably attached to said stem.

8. The glass of claim **7,** wherein said means has said sphere of said means having a through bore.

9. The glass of claim **8,** wherein said through bore of said sphere of said means is tapered.

10. The glass of claim **9,** wherein said through bore of said sphere of said means extends laterally therethrough.

11. The glass of claim **10,** wherein said means has said stem having a through bore.

12. The glass of claim **11,** wherein said through bore of said sphere of said means is tapered.

13. The glass of claim **12,** wherein said through bore of said stem of said means extends laterally therethrough.

14. The glass of claim **13,** wherein said through bore of said sphere of said means is aligned with said through bore of said stem of said means.

15. The glass of claim **14,** wherein said means includes a tapered pin.

16. The glass of claim **15,** wherein said tapered pin of said means extends replaceably through said through bore of said stem of said means and through said through bore of said sphere of said means.

17. The glass of claim **7,** wherein said sphere of said means is replaceably attached to said stem by a bayonet mount.

18. The glass of claim **17,** wherein said means has said sphere of said means having a through bore.

19. The glass of claim 18, wherein said through bore of said sphere of said means extends axially therethrough.

20. The glass of claim 19, wherein said means has said stem having a pair of radial pins.

21. The glass of claim 20, wherein said means has said sphere of said means having a pair of L-shaped slots. 5

22. The glass of claim 21, wherein said pair of L-shaped slots of said sphere of said means communicate with said through bore of said sphere of said means.

23. The glass of claim 22, wherein said pair of L-shaped slots of said sphere of said means cooperate with said pair of radial pins of said stem of said means. 10

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